

Please insert the following at page 15, line 15:

A3

BRIEF DESCRIPTION OF THE DRAWINGS

Please insert the following at page 16, line 13:

A4

DETAILED DESCRIPTION

*In the Claims:*

Please substitute the following claim 4 for the pending claim 4:

4. (Once Amended) A source according to Claim 2 wherein:

at the front surface of the target, the field direction substantially normal to the front surface is towards the front surface;

magnetic field strength in said direction decreases with increasing distance from the target to a point of zero field strength substantially normal to the front surface; and

from said point of zero field strength, with increasing distance from the target, the field direction is away from the front surface of the target.

Please substitute the following claim 5 for the pending claim 5:

5. (Once Amended) A source according to Claim 2 wherein:

at the front surface of the target, the field direction substantially normal to the front surface is away from the front surface and towards the substrate;

magnetic field strength in said direction decreases with increasing distance from the target to a point of zero field strength substantially normal to the front surface; and

from said point of zero field strength, with increasing distance from the target, the field direction is towards the front surface of the target.

Please substitute the following claim 7 for the pending claim 7:

*A6*

7. (Once Amended) A source according to Claim 2 wherein at the point of zero field strength in a direction substantially normal to the target, a field strength in a direction substantially lateral to the target is at least 10mT.

Please substitute the following claim 10 for the pending claim 10:

*A7*

10. (Once Amended) A cathode arc source comprising:

- a cathode;
- an anode;
- a vacuum chamber;
- means for generating a magnetic field in the vacuum chamber;
- a cathode station for location of a target in electrical contact with the cathode, said target having a front and a rear surface; and
- means for striking an arc at the front surface of the target;
- wherein the magnetic field generating means is for generating a magnetic field at the front surface of the target and wherein the magnetic field has a lateral field component effective to maintain the arc on the front surface of the target during operation and a normal field component with direction substantially normal to the front surface of the target and zero field strength at a position above the target and inside the chamber.

Please substitute the following claim 14 for the pending claim 14:

*Am*

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14. (Once Amended) A method according to Claim 11 further comprising using the second magnetic field to steer plasma from the arc through a macroparticle filter.

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